

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: August 14, 2002, 10:50:38 ; Search time 75.95 Seconds

(without alignments)
45.336 Million cell updates/sec

Title: US-09-785-059-3

Perfect score: 176
Sequence: 1 RMIRVQRCRAIRHMRIRROGLRRMLRV 31

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 747574 seqs, 111073796 residues

Total number of hits satisfying chosen parameters: 747574

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

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- 18: /SIDSI/gcgdata/hold-genseq/genseqp-emb1/AA1997.DAT:*
- 19: /SIDSI/gcgdata/hold-genseq/genseqp-emb1/AA1998.DAT:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	99	56.2	28	AAW47769	Antimicrobial pept
2	99	56.2	28	AAV32703	Antimicrobial pept
3	94	53.4	28	AAW47623	Antimicrobial pept
4	94	53.4	28	AAW47628	Antimicrobial pept
5	94	53.4	28	AAW47633	Antimicrobial pept
6	94	53.4	28	AAV32859	Antimicrobial pept
7	94	53.4	28	AAV32859	Antimicrobial pept
8	94	53.4	28	AAV32564	Antimicrobial pept
9	89	50.6	28	AAW30639	HIV-1-JC envelope
10	89	50.6	28	AAW47625	Antimicrobial pept
11	89	50.6	28	AAW47614	Antimicrobial pept

12	89	50.6	28	AAW47635	Antimicrobial pept
13	89	50.6	28	AAV32561	Antimicrobial pept
14	89	50.6	28	AAV32571	Antimicrobial pept
15	89	50.6	28	AAV32549	Antimicrobial pept
16	89	50.6	338	AAU14026	Peptide sequence f
17	89	50.6	345	AAU14536	HIV-1 isolate LAT
18	89	50.6	345	AAU14536	HIV-1 isolate LAT
19	89	50.6	420	AAU14536	Amino acid sequenc
20	89	50.6	853	AAW43066	Translation of HIV
21	89	50.6	856	AAW41025	Selectively deglyc
22	89	50.6	856	AAW41026	Selectively deglyc
23	89	50.6	856	AAW41027	Selectively deglyc
24	89	50.6	856	AAW41028	Selectively deglyc
25	89	50.6	856	AAW41029	Selectively deglyc
26	89	50.6	856	AAW41030	Selectively deglyc
27	89	50.6	856	AAW41031	Selectively deglyc
28	89	50.6	856	AAW41032	Selectively deglyc
29	89	50.6	856	AAW41032	Wild type HIV-1 HX
30	89	50.6	856	AAW45657	HIV-1/ITIB env c10
31	89	50.6	856	AAW43067	HIV-1 gp120 protei
32	89	50.6	863	AAW28955	Non-cleavable, sol
33	89	50.6	865	AAW73909	HIV-1 envelope pol
34	89	50.6	868	AAW60063	HIV virus env gene
35	89	50.6	868	AAW60422	Sequence of LAV vi
36	89	50.6	883	AAW82761	Ancestral HIV-1 gr
37	89	50.6	901	AAW70665	Sequence encoded b
38	89	50.6	844	AAW43073	HIV-1 gp120 protei
39	87	49.4	412	AAW05095	Synthetic HIV-1 tr
40	87	49.4	704	AAW05096	PSD302 pep HIV-1 g
41	85	48.3	28	AAW47624	Antimicrobial pept
42	85	48.3	28	AAW47634	Antimicrobial pept
43	85	48.3	28	AAW47650	Antimicrobial pept
44	85	48.3	28	AAV32570	Antimicrobial pept
45	84	47.7	28	AAW47771	Antimicrobial pept

ALIGNMENTS

RESULT 1	AAW47769	standard; peptide: 28 AA.
ID	AAW47769	standard; peptide: 28 AA.
XX	AAW47769;	
AC	AAW47769;	
XX	26-MAY-1998 (first entry)	
DT	26-MAY-1998	
XX	Antimicrobial peptide LLPI analogue.	
DE	Antimicrobial peptide LLPI analogue.	
XX	Antimicrobial; transmembrane protein; TM; lentivirus lytic peptide;	
KW	LIP; amphipathic; antibacterial; antifungal; antiviral; antiprotocozal.	
OS	Synthetic.	
OS	Human immunodeficiency virus.	
PN	US5714577-A.	
XX	US5714577-A.	
XX	03-FEB-1998.	
PD	03-FEB-1998.	
XX	24-JAN-1997;	97US-0786748.
PF	24-JAN-1997;	97US-0786748.
XX	26-JAN-1996;	96US-0010634.
PR	26-JAN-1996;	96US-0010634.
XX	24-JAN-1997;	97US-0786748.
PA	(UYPI-) UNIV PITTSBURGH.	
XX	Mietzner TA, Montelaro RC, Tencza SB;	
PI	Mietzner TA, Montelaro RC, Tencza SB;	
XX	WPI; 1998-158352/14.	
DR	WPI; 1998-158352/14.	
XX	Retroviral TM peptides - useful as antibacterial agents	
PT	Retroviral TM peptides - useful as antibacterial agents	
XX	Disclosure; Column 19; 59pp; English.	
PS	Disclosure; Column 19; 59pp; English.	

XX The invention relates to new antimicrobial peptides which correspond to
CC amino acid sequences in the transmembrane proteins of lentiviruses, in
CC particular HIV and SIV. These peptides comprise arginine rich sequences
CC which, when modelled for secondary structure, display high
CC amphipathicity and hydrophobic moment. Also disclosed are structural
CC and functional analogues and homologues of these peptides which also
CC display antimicrobial activity. The peptides are highly inhibitory to
CC microorganisms (bacteria, fungi, viruses and protozoa) but significantly
CC less toxic to red blood cells and other normal mammalian cells. Activity
CC is demonstrated against Gram positive and negative bacteria including
CC *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Enterococcus faecalis* and
CC *Serratia marcescens*.
CC The present sequence is one of 169 disclosed specific examples of
CC the new peptides. It is an analogue of the peptide designated LLP1
CC (see AA47614) which is a peptide from the transmembrane protein (gp41)
CC of HIV strain HXB2R.
XX

SQ Sequence 28 AA:

Query Match 56.2%; Score 99; DB 19; Length 28;
Best Local Similarity 82.1%; Pred. No. 3.5e-06;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 RMRVQRRCRAIRHWRIRROGLRRWL 28
| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 rvlrvvgacrairhprirgllrrll 28

RESULT 2

AA473703
ID AA473703 standard: peptide; 28 AA.

AC AA473703;

DT 21-OCT-1999 (first entry)

DE Antimicrobial peptide LLP1 analogue.

KM Antimicrobial peptide; LLP1; SLP-1; LLP2; SLP2A; SLP2B; ELP; infection;
KW growth inhibitor; microorganism; virus; gene therapy; vector production;
sterilisation.

OS Synthetic.

OS Human immunodeficiency virus type 1.

PN US5945507-A.

PD 31-AUG-1999.

PF 18-SEP-1997; 97US-0932682.

PR 26-JAN-1996; 96US-0010634.

PR 24-JAN-1997; 97US-0786748.

PR 18-SEP-1997; 97US-0932682.

PA (UVP1-) UNIV PITTSBURGH.

PI Metzner TA, Montelaro RC, Tencza SB;

DR WPI; 1999-508189/42.

XX Antimicrobial peptides useful for treating microbial infections
PS Disclosure; Column 21; 62pp; English.

CC This sequence represents an antimicrobial peptide of the invention, and
CC is an analogue of the peptide LLP1 (see AA473703). The peptides can be
CC used for treating infections caused by *Staphylococcus aureus*,
CC *metacillin* resistant *S. aureus*, *Pseudomonas aeruginosa*, *Enterococcus*
CC *faecalis*, *S. marcescens*, *Escherichia coli*, fungi, protozoa and viruses in
CC a mammalian host. They can be used to inhibit growth of diverse

CC microorganisms such as bacteria, fungi, protozoa and DNA and RNA viruses
CC and can be used in tissue culture to inhibit unwanted microbial growth.
CC particularly for the production of recombinant proteins or vectors for
CC gene therapy. They can also be used in preventing infections through the
CC sterilisation of wounds prior to suture and to sterilise surgical
CC instruments. The unique structure of these antimicrobial peptides
CC imparts high potency while selectivity is maintained, they are
CC moderately haemolytic but only lyse red blood cells at high
CC concentrations unlike melittin, a peptide extracted from bee venom, which
CC is highly active against bacteria and lyses red blood cells showing
CC little selectivity. The peptides target a membrane structure which makes
CC it more difficult for a microorganism to develop a mechanism of
CC resistance against this type of antibiotic. Their small size makes them
CC relatively simple to prepare by standard synthetic peptide chemistry.
XX

SQ Sequence 28 AA:

Query Match 56.2%; Score 99; DB 20; Length 28;
Best Local Similarity 82.1%; Pred. No. 3.5e-06;
Matches 23; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 1 RMRVQRRCRAIRHWRIRROGLRRWL 28
| | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 rvlrvvgacrairhprirgllrrll 28

RESULT 3

AA47623
ID AA47623 standard: peptide; 28 AA.

AC AA47623;

DT 26-MAY-1998 (first entry)

DE Antimicrobial peptide LLP1 analogue.

KM Antimicrobial; transmembrane protein; TM; lentivirus lytic peptide;
KW LLP; amphipathic; antibacterial; antifungal; antiviral; antiprotozoal.

OS Synthetic.

OS Human immunodeficiency virus.

PN US5714577-A.

PD 03-FEB-1998.

PF 24-JAN-1997; 97US-0786748.

PR 26-JAN-1996; 96US-0010634.

PR 24-JAN-1997; 97US-0786748.

PA (UVP1-) UNIV PITTSBURGH.

PI Metzner TA, Montelaro RC, Tencza SB;

DR WPI; 1998-158352/14.

XX Retroviral TM peptides - useful as antibacterial agents
PS Disclosure; Column 9; 59pp; English.

CC The invention relates to new antimicrobial peptides which correspond to
CC amino acid sequences in the transmembrane proteins of lentiviruses, in
CC particular HIV and SIV. These peptides comprise arginine rich sequences
CC which, when modelled for secondary structure, display high
CC amphipathicity and hydrophobic moment. Also disclosed are structural
CC and functional analogues and homologues of these peptides which also
CC display antimicrobial activity. The peptides are highly inhibitory to
CC microorganisms (bacteria, fungi, viruses and protozoa) but significantly
CC less toxic to red blood cells and other normal mammalian cells. Activity
CC is demonstrated against Gram positive and negative bacteria including
CC *Pseudomonas aeruginosa*, *Staphylococcus aureus*, *Enterococcus faecalis* and

XX	RESULT 6
XX	AA32559
ID	AA32559 standard; peptide: 28 AA.
XX	
AC	AA32559;
XX	
DT	21-OCT-1999 (first entry)
XX	
DE	Antimicrobial peptide LLPI analogue.
XX	
KW	Antimicrobial peptide; LLPI; SLP-1; LLP2; SLP2A; SLP2B; ELP; infection; growth inhibitor; microorganism; virus; gene therapy; vector production; sterilisation.
XX	
OS	Synthetic.
OS	Human immunodeficiency virus type 1.
XX	
PN	US5945507-A.
XX	
PD	31-AUG-1999.
XX	
PE	18-SEP-1997; 97US-0932682.
XX	
PR	26-JAN-1996; 96US-0010634.
PR	24-JAN-1997; 97US-0786748.
PR	18-SEP-1997; 97US-0932682.
XX	
PA	(UYP1-) UNIV PITTSBURGH.
XX	
PI	Mietzner TA, Montelaro RC, Tenca SB;
XX	
DR	WPI: 1999-508189/42.
XX	
PT	Antimicrobial peptides useful for treating microbial infections
XX	
PS	Disclosure: Column 9; 62pp; English.
XX	
XX	This sequence represents an antimicrobial peptide of the invention, and
CC	is an analogue of the peptide LLPI (see AA32549). The peptides can be
CC	used for treating infections caused by <i>Staphylococcus aureus</i> ,
CC	mechanically resistant <i>S. aureus</i> , <i>Pseudomonas aeruginosa</i> , <i>Enterococcus</i>
CC	<i>faecalis</i> , <i>S. marcescens</i> , <i>Escherichia coli</i> , fungi, protozoa and viruses in
CC	a mammalian host. They can be used to inhibit growth of diverse
CC	microorganisms such as bacteria, fungi, protozoa and DNA and RNA viruses
CC	and can be used in tissue culture to inhibit unwanted microbial growth,
CC	particularly for the production of recombinant proteins or vectors for
CC	gene therapy. They can also be used in preventing infections through the
CC	sterilisation of wounds prior to suture and to sterilise surgical
CC	instruments. The unique structure of these antimicrobial peptides
CC	imparts high potency while selectivity is maintained, they are
CC	moderately haemolytic but only lyse red blood cells at high
CC	concentrations unlike melittin, a peptide extracted from bee venom, which
CC	is highly active against bacteria and lyses red blood cells showing
CC	little selectivity. The peptides target a membrane structure which makes
CC	it more difficult for a microorganism to develop a mechanism of
CC	resistance against this type of antibiotic. Their small size makes them
CC	relatively simple to prepare by standard synthetic peptide chemistry.
XX	
50	Sequence 28 AA:

Query Match	Similarity	53.4%	Score	94	DB	20	Length	28	
Best Local	Similarity	78.6%	Pred. No.	1.5e-05					
Matches	22	Conservative	0	Mismatches	6	Indels	0	Gaps	0
QY	1	RWIRVYORWCRAIRIHWIRRIROGLRRWL	28						
DB	1	rviirvvgacrairinhpririgleril	28						
RESULT									
ID	AAV32564								
	AAV32564	standard; peptide: 28 AA.							

XX	AAV32564;
AC	
XX	
DT	21-OCT-1999 (first entry)
XX	
DE	Antimicrobial peptide LLP1 analogue.
XX	
XX	Antimicrobial peptide: LLP1; SLP-1; LLP2; SLP2A; SLP2B; ELP; infection;
KM	growth inhibitor; microorganism; virus; gene therapy; vector production;
KW	sterilisation.
XX	
OS	Synthetic.
OS	Human immunodeficiency virus type 1.
XX	
PN	US5945507-A.
XX	
PD	31-AUG-1999.
XX	
PF	18-SEP-1997; 97US-0932682.
XX	
PR	26-JAN-1996; 96US-0010634.
PR	24-JAN-1997; 97US-0786748.
PR	18-SEP-1997; 97US-0932682.
XX	
PA	(UYP1-) UNIV PITTSBURGH.
XX	
PI	Mietzner TA, Montelaro RC, Tencza SB;
XX	
DR	WPI, 1999-508189/42.
XX	
PT	Antimicrobial peptides useful for treating microbial infections
XX	
PS	Disclosure; Column 9; 62pp; English.
XX	
CC	This sequence represents an antimicrobial peptide of the invention, and
CC	is an analogue of the peptide LLP1 (see AAV32544). The peptides can be
CC	used for treating infections caused by <i>Staphylococcus aureus</i> ,
CC	methicillin resistant <i>S. aureus</i> , <i>Pseudomonas aeruginosa</i> , <i>Enterococcus</i>
CC	<i>faecalis</i> , <i>S. marcescens</i> , <i>Escherichia coli</i> , fungi, protozoa and viruses in
CC	a mammalian host. They can be used to inhibit growth of diverse
CC	microorganisms such as bacteria, fungi, protozoa and DNA and RNA viruses
CC	and can be used in tissue culture to inhibit unwanted microbial growth,
CC	particularly for the production of recombinant proteins or vectors for
CC	gene therapy. They can also be used in preventing infections through the
CC	sterilisation of wounds prior to suture and to sterilise surgical
CC	instruments. The unique structure of these antimicrobial peptides
CC	imparts high potency while selectivity is maintained, they are
CC	moderately haemolytic but only lyse red blood cells at high
CC	concentrations unlike melittin, a peptide extracted from bee venom, which
CC	is highly active against bacteria and lyses red blood cells showing
CC	little selectivity. The peptides target a membrane structure which makes
CC	it more difficult for a microorganism to develop a mechanism of
CC	resistance against this type of antibiotic. Their small size makes them
CC	relatively simple to prepare by standard synthetic peptide chemistry.
XX	
Sequence	28 AA;
50	

Query Match	53.4%	Score 94:	DB 20:	Length 28:
Best Local Similarity	78.6%	Pred. No.	1.5e-05;	
Matches	22;	Conservative	0;	Mismatches 6;
				Indels 0;
				Gaps 0;
QY	1	RWIRVORHCRAIRHRIWRIRROGLRRRL	28	
Db	1	rviewvgacrairhprirgllrrll	28	
RESULT	8			
AAAY32569				
ID	AAAY32569	standard:	peptide:	28 AA.
XX				
AC	AAAY32569;			
XX				


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PR 24-JAN-1997; 97US-0786748.
XX
XX (UYPI-) UNIV PITTSBURGH.
XX
XX Mletzner TA, Montelaro RC, Tencza SB;
XX
XX WPI; 1998-158352/14.
DR
XX
XX Retroviral TM peptides - useful as antibacterial agents
XX
XX Disclosure; Column 9; 59pp; English.
XX
XX The invention relates to new antimicrobial peptides which correspond to
XX amino acid sequences in the transmembrane proteins of lentiviruses, in
XX particular HIV and SIV. These peptides comprise arginine rich sequences
XX which, when modelled for secondary structure, display high
XX amphipathicity and hydrophobic moment. Also disclosed are structural
XX and functional analogues and homologues of these peptides which also
XX display antimicrobial activity. The peptides are highly inhibitory to
XX microorganisms (bacteria, fungi, viruses and protozoa) but significantly
XX less toxic to red blood cells and other normal mammalian cells. Activity
XX is demonstrated against Gram positive and negative bacteria including
XX Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus faecalis and
XX Serratia marcescens.
XX The present sequence is one of 169 disclosed specific examples of
XX the new peptides. It is an analogue of the peptide designated LRP1
XX (see AAW47614) which is a peptide from the transmembrane protein (gp41)
XX of HIV strain HXB2R.
SQ Sequence 28 AA;

Query Match 50.6%; Score 89; DB 19; Length 28;
Best Local Similarity 75.0%; Pred. No. 6.8e-05;
Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 RWIRVQRMCRAIRHWIRRIROGLRRL 28
   | | | | | | | | | | | | | | | |
DB 1 rvlvvgacrairhprirgleril 28

RESULT 11
AAW47614
ID AAW47614 standard; peptide; 28 AA.
XX
XX AAW47614;
AC
XX
XX 26-MAY-1998 (first entry)
DT
XX
XX Antimicrobial peptide HIVHXB2R 828-855, or LRP1.
DE
XX
XX Antimicrobial; transmembrane protein; TM; lentivirus lytic peptide;
KM LLP; amphipathic; antibacterial; antifungal; antiviral; antiprotozoal.
XX
XX Human immunodeficiency virus.
OS
XX
XX US5714577-A.
PN
XX
XX 03-FEB-1998.
PD
XX
XX 24-JAN-1997; 97US-0786748.
PF
XX
XX 26-JAN-1996; 96US-0010634.
PR
XX 24-JAN-1997; 97US-0786748.
XX
XX (UYPI-) UNIV PITTSBURGH.
PA
XX
XX Mletzner TA, Montelaro RC, Tencza SB;
PI
XX
XX WPI; 1998-158352/14.
DR
XX
XX Retroviral TM peptides - useful as antibacterial agents
XX
XX

```

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PS Disclosure; Column 5; 59pp; English.
XX
XX The invention relates to new antimicrobial peptides which correspond to
XX amino acid sequences in the transmembrane proteins of lentiviruses, in
XX particular HIV and SIV. These peptides comprise arginine rich sequences
XX which, when modelled for secondary structure, display high
XX amphipathicity and hydrophobic moment. Also disclosed are structural
XX and functional analogues and homologues of these peptides which also
XX display antimicrobial activity. The peptides are highly inhibitory to
XX microorganisms (bacteria, fungi, viruses and protozoa) but significantly
XX less toxic to red blood cells and other normal mammalian cells. Activity
XX is demonstrated against Gram positive and negative bacteria including
XX Pseudomonas aeruginosa, Staphylococcus aureus, Enterococcus faecalis and
XX Serratia marcescens.
XX The present sequence is one of 169 disclosed specific examples of
XX the new peptides. It is called LRP1 and corresponds to residues 828-855
XX of the transmembrane protein (gp41) of HIV strain HXB2R.
SQ Sequence 28 AA;

Query Match 50.6%; Score 89; DB 19; Length 28;
Best Local Similarity 75.0%; Pred. No. 6.8e-05;
Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 1 RWIRVQRMCRAIRHWIRRIROGLRRL 28
   | | | | | | | | | | | | | | | |
DB 1 rvlvvgacrairhprirgleril 28

RESULT 12
AAW47635
ID AAW47635 standard; peptide; 28 AA.
XX
XX AAW47635;
AC
XX
XX 26-MAY-1998 (first entry)
DT
XX
XX Antimicrobial peptide LRP1 analogue.
DE
XX
XX Antimicrobial; transmembrane protein; TM; lentivirus lytic peptide;
KM LLP; amphipathic; antibacterial; antifungal; antiviral; antiprotozoal.
XX
XX Synthetic.
OS
XX
XX Human immunodeficiency virus.
PN
XX
XX US5714577-A.
PD
XX
XX 03-FEB-1998.
PF
XX
XX 24-JAN-1997; 97US-0786748.
PR
XX
XX 26-JAN-1996; 96US-0010634.
PR
XX 24-JAN-1997; 97US-0786748.
XX
XX (UYPI-) UNIV PITTSBURGH.
PA
XX
XX Mletzner TA, Montelaro RC, Tencza SB;
PI
XX
XX WPI; 1998-158352/14.
DR
XX
XX Retroviral TM peptides - useful as antibacterial agents
XX
XX Disclosure; Column 9; 59pp; English.
XX
XX The invention relates to new antimicrobial peptides which correspond to
XX amino acid sequences in the transmembrane proteins of lentiviruses, in
XX particular HIV and SIV. These peptides comprise arginine rich sequences
XX which, when modelled for secondary structure, display high
XX amphipathicity and hydrophobic moment. Also disclosed are structural
XX and functional analogues and homologues of these peptides which also
XX display antimicrobial activity. The peptides are highly inhibitory to
XX microorganisms (bacteria, fungi, viruses and protozoa) but significantly

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